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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/648,325	08/25/2000	Andrew John Holmes	TS7564 (US)	6381
23632 75	90 11/15/2005		EXAMINER	
SHELL OIL C	COMPANY		MCAVOY,	ELLEN M
P O BOX 2463				
HOUSTON, TX 772522463			ART UNIT	PAPER NUMBER
,			1764	

DATE MAILED: 11/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Seximiner   Color								
## Disposition of Claims  ## Application Summary    Examiner			Application No.	Applicant(s)				
Ellen M. McAvoy   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   1764   176			09/648,325	HOLMES ET AL.				
The MALING DATE of this communication appears on the cover sheet with the correspondence address − Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Enteriors for tensing by a waitine under the provisions of 37 CPR 1.18(b), in no event, however, may a reply be timely filled.  If NO period for reply is specified above, the maximum statutory period will apply and the spire SIX (8) NOTHS from the maining date of this communication.  Fashire for any which the set or contended period for reply is specified above, the maximum statutory period will apply and the spire SIX (8) NOTHS from the maining date of this communication.  Fashire for any which the set or contended period for reply is specified above, the maximum statutory and the spire SIX (8) NOTHS from the maining date of this communication.  Fashire for any which the set or contended period for reply is specified above, the maximum statutory period will apply and the spire SIX (8) NOTHS from the maining date of this communication.  Fashire for provided above, the maximum statutory period will apply and the spire SIX (8) NOTHS from the maining date of this communication.  Fashire for provided above, the maximum statutory period will apply and the spire SIX (8) NOTHS from the maining date of this communication.  Fashire for provided the spire statutory will be statutory will be statutory and the spire statutory be tended to the communication.  Fashire for provided any statutory of the spire statutory of the communication.  Status  1)[SIX claim(s)		Office Action Summary	Examiner	Art Unit				
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  ***Interest Six (6) MONTH'S from the realing date of this communication.  ***Interest Six (6) MONTH'S from the realing date of this communication.  **In No pand for reply is specified above, the maximum statutory period will apply and will easily fix (6) MONTH'S from the realing date of this communication.  **In No pand for reply is specified above, the maximum statutory period will apply and will easily fix (6) MONTH'S from the realing date of this communication.  **In No pand for reply is specified above, the maximum statutory period will apply and will easily fix (6) MONTH'S from the mailing date of this communication.  **Fallace to reply within the set or extended period for reply will, by statute, cause the application to become ARANDONED (35 U.S. 5 ± 133).  **Status**  1) □ Responsive to communication(s) filled on 2 September 2005.  2a) □ This action is FINAL.  2b) □ This action is FINAL.  2b) □ This action is FINAL.  2b) □ This action is FINAL.  2c) □ Claim(s) □ This action is final in the application.  4a) □ Claim(s) □ This action is final in the application.  4b) □ Claim(s) □ This action is final in the application of replaced in the action is action action in the action in			1					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Eatheristics of times may be available under the provisions of 30°CR1.13(6), in no event, however, may a reply he timely filed  If NO period for reply is specified above, the maximum statutory period will apply safe will expire SIX (6) MORTHS from the maining date of this communication. Fallints the reply within the set or centeded part of the reply wills by status, cause the application to become ABANDED (50 U.S. C. § 110). Any reply received by the Children manufacture is after than these months after the mailing date of this communication, even if timely filed, may reduce any event of portion than adjustment. Set 97 CPR 1-764(4).  Status  1) Responsive to communication(s) filed on 2 September 2005.  22) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) Z-32 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) is/are allowed.  6) Claim(s) is/are objected to.  7) Claim(s) is/are objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.85(a).  11) Certified copies of the priority documents have been received.  2. Certifie								
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of tem may be suitable under the provides of 37 CFR 1.35(a). The cent however, may a raply be limely flied after SIX (e) MCNTHS from the mailing after of this communication.  Failutes or provy which the set or extended parted for myould be platfactured. The provided of the communication of the provided by the Office later than three months after the mailing date of this communication, even if timely flied, may reduce any earned patient term adjustment. Set 37 CFR 1.704(b).  Status  1) □ Responsive to communication(s) filed on 2 September 2005.  2a) □ This action is FiNAL.  2b) □ This action is FiNAL.  2b) □ This action is non-final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) □ Claim(s) Y=28 is/are pending in the application.  4a) Of the above claim(s) is/are allowed.  5) □ Claim(s) y=38 is/are rejected.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) y=38 is/are rejected.  7) □ Claim(s) is/are objected to by the Examiner.  4pplication Papers  9) □ The specification is objected to by the Examiner.  10) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.  Application Papers  9) □ The specification is objected to by the Examiner.  Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12 □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f): a) □ All b D Some* c) □ None of: 1. □ Certified copies of the priority documents have been received.  2 □ Criffied copies of the priority documents have been received in Application No. □ 1. □ Certified copies of the priority docu								
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Application/Control Number: 09/648,325

Art Unit: 1764

# Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicants' submission filed on 02 September 2005 has been entered.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matthews et al (4,462,918) in view of European Patent Application 0 434 464 A1 and Karn (4,627,928).

Matthews et al ["Matthews"] teach lubricating oil compositions, and in particular a lubricating oil composition which may be used as a hydraulic fluid (column 1, lines 5-7). The composition comprises a major proportion of a lubricating oil and a minor proportion of each of a Group II metal dithiophosphate and a compound of applicants' formula I (column 1, lines 30-48). The combination of the Group II metal dithiophosphate anti-wear additive with compounds of formula I gives improved anti-wear performance (column 1, lines 49-60). Most preferably,

the Group II metal dithiophosphate is a zinc dialkyl dithiophosphate of which the alkyl groups contain 3-20 carbon atoms (column 2, lines 7-14). The combination of additives may suitably be used with other additives (column 2, lines 38-42). While Matthews teach the addition of other additives, Matthews differ from the instant claims in not teaching the addition of a magnesium salicylate.

European Patent Application 0 434 464 A1 (hereafter EPA '464) teach lubricant compositions especially useful as hydraulic fluids containing an amino succinate ester as corrosion inhibitor (abstract). EPA '464 teach that when used in an acidic environment, it can be desirable to incorporate, inter alia, overbased alkylsalicylate (page 3, lines 49-52).

Karn is relied on as teaching overbased magnesium alkylsalicylates as additives for hydraulic fluids (column 17, lines 41-47). Karn teaches that the magnesium salts can be characterized as basic hydroxyl-containing alkylated aromatic carboxylic acid salts having a magnesium content of at least 150% up to 500% of the stoichiometrically equivalent amount of magnesium based on the amount of total acid present. The examiner is of the position that "up to 500%" is indistinguishable from "more than 500%" of the claims. It would also be obvious to add overbased magnesium alkylsalicylate in an amount sufficient to result in greater than 500% magnesium in the compositions.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to add the overbased magnesium alkylsalicylate of Karn to the lubricating composition of Matthews as taught by EPA '464 and because Matthews specifically teach that other additives may be incorporated into the composition of their invention.

### Claim Rejections - 35 USC § 103

Claims 7-12, 18, 20 and 22-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yagishita et al (6,306,801).

Yagishita et al ["Yagishita"] disclose a lubricating oil composition comprising a base oil, (A) 0.5 to 20% by mass of an acylated succinimide, (B) 0.05 to 0.3% by mass of zinc dithiophosphate, in terms of the phosphorus content, and (C) 0.5 to 4.0% by mass of a metallic detergent, in terms of the sulfated ash content, based on the total mass of the composition. The lubricating oil composition is preferably used as a gasoline engine oil but other types of oils are taught including hydraulic actuation oils. See column 2, lines 3-13. The examiner is of the position that the hydraulic fluid limitation of the compositions and additive packages of the claims is taught and the zinc dithiophosphate limitation of the claims is taught. The method of claims 22-38 is taught when the compositions of Yagishita are used in a hydraulic environment. Applicants' open-ended claim language "comprising" allows for the addition of other additives to the composition including succinimide component (A). Yagishita allows for the addition of other additives to the compositions including pour point depressants and antifoamers. See column 11, line 58 to column 12, top. The metallic detergent component of Yagishita may be a basic alkaline earth metal salicylate having a total base number of 100 to 450 mgKOH/g. See column 9, lines 7-40. Calcium and/or magnesium salts are taught in column 10, lines 15-21. Applicants' claimed compositions differ by specifying that the magnesium salicylate have a magnesium content of more than 500% of the stoichiometrically equivalent amount of magnesium. However, most references characterize overbased metal salts in terms of total base

Page 5

number or TBN. Indeed, applicants teach in the specification on pages 4-5 that the overbased magnesium salicylate can be characterized by their total base number, and that the total base number is preferably at least 300 mgKOH/g and at most 600 mgKOH/g. Applicants teach that another method of characterizing overbased magnesium salicylates is by the magnesium content relative to the stoichiometrically equivalent amount of magnesium based on the amount of total acid present, and that the overbased magnesium salicylates have a magnesium content of more than 500%. Thus, the examiner is of the position that the claimed "magnesium content of more than 500% of the stoichiometrically equivalent amount of magnesium based on the amount of total acid present", is roughly equivalent to 300-600 mgKOH/g. In the Example set forth on page 10, a highly overbased magnesium alkylsalicylate having a TBN of 337 mgKOH/g also has a magnesium content of about 750% of the stoichiometrically equivalent amount of magnesium based on the amount of total acid present. Thus the examiner is of the position that the basic magnesium salicylate detergent component of Yagishita meets the limitations of the claimed magnesium salicylate detergent.

# Claim Rejections - 35 USC § 103

Claims 13-17, 19, 21 and 34-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yagishita et al (6,306,801) in combination with Matthews et al (4,462,918).

Yagishita is relied on as outlined above. The above rejected claims differ from Yagishita by adding 0.001 to 5 % by weight of a dialkylester of an aminosuccinic acid compound having the structure according to formula I set forth in dependent claim 13. However, Matthews et al

Art Unit: 1764

["Matthews"] teaches such an aminosuccinic acid ester as an anti-rust agent in hydraulic fluid compositions which are especially effective in combination with a metal dithiophosphate anti-wear additive. See column 1, line 31 to column 2, line 43. Having the prior art references before the inventors at the time the invention was made it would have been obvious to have added the aminosuccinic acid ester compound to the composition of Yagishita if its known imparted property was so desired. The examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, the motivation relied on by the examiner is the teaching in Yagishita allowing for the addition of conventional additives to the compositions including rust preventives and the teaching in Matthews that the combination of additives may suitably be used with other additives.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ellen M. McAvoy whose telephone number is (571) 272-1451. The examiner can normally be reached on M-F (7:30-5:00) with alt. Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on (571) 272-1444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ellen M.McAvoy

Primary Examiner

Art Unit 1764

EMcAvoy November 9, 2005